Our culture is closely linked with the development of meadows and pastures. Forage is, and always has been, the basis for survival for human beings and animals. Grassland makes an important contribution to the feeding of healthy, productive livestock. High milk yield requires the best quality forage. Pöttinger supports the principles of high quality forage with advanced technology.

The starting point for high forage quality is the careful mowing process. Best possible ground hugging, low disintegration losses and precise operation without time-consuming operator intervention are the justifiable demands made from the field. Engineering details and functions on machines contribute significantly to harvesting quality forage. First-class cutting quality, low drag resistance and high stability have given the new generation of NOVACAT and NOVADISC mowers a boost. Quality for many years of service.

"Learn something new and take new steps to encourage development"

Karin Heinrich
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NOVADISC
crear-mounted disc mowers with side suspension, without conditioner

Machines determine the quality of a forage crop. Clean cut, protecting the sward and high productivity are critical factors. With the new NOVADISC mower the grassland specialist Pöttinger has developed a new product that will lift the mowing technology market.
Selecting the right technology and setting up the machine correctly are critical influences on forage quality. Good ground hugging, clean cut and the right cutting height are essential. These requirements have been implemented without compromise with innovative technical details in the NOVACAT rear-mounted mowers.

"extra dry" – a joint development with the Institute of Agricultural Engineering (IMAG-DLO) in Wageningen (Holland) leads the way.
The cutter bar

The knife quick-change system is standard on all Pöttinger mowers. A spring clip engages with the knife pin to press the knife securely against the mower disc. The solid hold ensures safety.

The knife mounting pin is bolted onto the disc and can be replaced cheaply if required. The bolt is recessed to protect it against corrosion and dirt.

Longer, harder operation demands the best quality knives. Pöttinger knives are made from high-quality knife steel. Due to their optimised shape the knives glide over each other in the overlap as they counter-rotate. It is easy to change the knives quickly using the quick-change system.

Knife quick-change system – it’s this easy:

Press the spring clip downwards with the knife key. Remove the knife and insert the replacement.
The heart of the new generation of disc-type mowers is the cutter bar. Pöttinger based its development on drum-type mowers technology. The increased paddle-action of the drum mower has been integrated in the disc cutter bar technology.

Best crop flow

Contamination-free pickup and transfer of the crop are important criteria in mower technology for the careful processing of forage. The contoured shape of the conical mower discs increases the effect of the paddles on crop flow, lowering the drag resistance of the mower.

Streamlined mower discs. Forage flows through the mower easily and uniformly. Tractor power requirement is lower as a result; dynamic crop flow means the mower is operating at peak efficiency all the time.

Optimised counter chop area. The slanted leading edge of the cutter bar allows the earth to flow beneath, separating it from the crop. There is a minimal gap between the upper edge of the cutter bar and the counter-rotating knives. This means that even heavy, flattened crop, or dry unfertilised grass can be cut to the highest quality.

Tidy and uniform cut due to optimised overlap of knife paths.

The sward is protected through the design of the smooth underside of the cutter bar, rounded skids at both ends and no sharp edges.

Original Inside - you cannot beat the original

Look for original spare parts with the cloverleaf.
Assembly and transmission

Maintenance – unrestricted access

Straightforward maintenance is possible due to modular construction: bevel gears and bearings can be removed as a single unit, idler gears are also easy to remove through the large openings. It doesn’t come any easier.
Hardened mower discs
The oval, smooth mower discs are made of hardened fine-grained steel for extra long service. The sleek construction ensures power-saving crop flow.

Rotor shaft
The rotor shaft is bolted to the gear wheels. Each shaft can therefore be replaced economically if necessary.

Seal
The bearing flange and fittings are tightly sealed with a rubber O-ring seal.

Bearings
Heavy-duty, twin race angular contact bearings with a theoretical bearing spacing of 2.36' / 60 mm guarantee the best absorption of impacts – similar to a car axle.

Gear wheels
The bevel gears are arranged in a straight line and the disc gear wheels and idler gears are almost the same size (44 and 35 teeth). The bearing is subjected to less stress with an idler gear on either side. All gear wheels are hardened and ground for smooth running and a long service life.

The teeth are 0.79' / 20 mm wide and there are always two teeth in contact.

Highest quality materials
Welded, inside shoe-free cutter bar made of best quality steel. Precision milled on CNC-controlled machining centre.

Skids
The wide skids are made from hardened boron steel to resist impact and prevent a build-up of earth. Standard equipment with Pöttinger of course. The skids are bolted making them easy to replace when worn.

Additional wear skids can be mounted if necessary.

High cut large radius skids
High cut skids are also available to raise the cutting height to between 1.97’ and 3.15’ / 50 and 80 mm. The easy-to-fit high cut skids feature a large radius and wide contact area to reduce wear.
Paddle drums at either end provide best swath placement and tidy crop flow, even on a slope.

An interesting feature is available on the large area coverage NOVADISC 400 mower to allow the swath to be divided, or placed over the whole width. The swath is divided by two paddle drums. This enables tractor to drive along a cleared track instead of over the crop.
This lightweight mower is smooth-running and tuned for high performance.

Transmission – no inside shoe
The mower’s most noticeable feature is the lightweight cutter bar without an inside shoe. The cutter bar transmission is located behind the first mower disc. This enables the mower to get in and out of tight corners, and operate on rough ground, without clogging. Powerful drive belts ensure smooth running.

Mounting
A solid welded design for high loading capacity.

Hitching and detaching
The mower is equipped with adjustable mounting pins so it can be adapted to any type of tractor. 3-point, rear-mounting Cat. II. The headstock can be set for larger, wider tractors or dual sets of wheels.

Counter springs – ground care mowing
The pressure on the ground can be adjusted steplessly by changing the mounting height above the tractor hitch. The optimised position of the countersprings guarantees best possible weight alleviation of the cutter bar. A uniform pressure is maintained even in extreme operating conditions such as on embankments (up to 45° upwards or 30° downwards). In addition there is an adjustable spring on the boom for unique overall weight alleviation (except on NOVADISC 400).

Breakaway system – convenient and reliable
This system is fitted as standard and features a mechanical breakaway device that unlatches on impact and engages again when the rig is reversed. Protection and comfort hand-in-hand.
Mowing without leaving the tractor cab really is possible with NOVADISC mowers. All functions can be controlled from the tractor seat.

**Working position – DISC lifting system**

The tractor hitch does not need to be operated for lifting the mower at headlands. As a result no readjustment is required after lowering. Simply move the remote to the set height.

The mower is lowered so that the outside contacts the ground slightly before the inside to protect the sward.

**Transport position – safety first**

The cutter bar is raised using single-acting hydraulics so that the tractor hitch does not need to be operated. The cutter bar is locked in place hydraulically. The mower is released by lanyard.

Low transport clearance is possible thanks to the low-slung cutter bar pivot axle.

**Safety guards – easy maintenance access**

The guard curtains are reinforced with fabric and are extremely resistant to tearing. The front guard can be raised for accessing the quick-change knives, and the side guards for reducing the transport height.

On NOVADISC 400 mowers the cutter bar hinges over the tractor centreline. This improves weight distribution and reduces the transport height to 13.06” / 3.98 metres. A second, single-acting cylinder returns the mower to the working position.
The suspension points at either end of the cutter bar stabilise the mower and protect it against twisting. The gear wheels and bearings are subjected to less stress as a result. Smooth running for a long service life.
Mountings and transmission

Fitting and removal: The mower is equipped with adjustable mounting pins so it can be adapted to any type of tractor. 3-point rear-mounting Cat. II, Cat. III width II also available. The track width of the tractor is not an issue either. The mower can be shifted sideways on the support frame to ensure optimum use of the whole mowing width.

Transmission

Powerful transmission train features: PTO 1 – angular gear unit 2 – c.v. joint inside paddle drum 3 – bevel gear on first mower disc. Exceptional smooth running is guaranteed. A friction clutch and freewheel provide optimum protection.

Transmission speeds:

- NOVACAT 225 to 305: 540 rpm
- NOVACAT 350: 1000 rpm

Powerful transmission

The cutter bar is driven by a high-performance transmission. A constant velocity joint inside the paddle drum provides a stress-free link between the angular gear unit 2 and cutter bar 4. The gears are oil-submerged and therefore require no maintenance.
NOVACAT

Pivot to the rear:
For low clearances. Operator has a clear view to the rear (not for road transport).

Road transport: Pivot to rear and raised
the mower is close to the tractor so less weight is taken off the front axle. The side guards can be folded away to reduce the transport height where required.

Lift to the side:
The PTO shaft is still free to rotate in all these positions so there is no risk of damage.

Pivot to the rear:
For low clearances. Operator has a clear view to the rear (not for road transport).
Using these mowers day in and day out has been made as comfortable as possible. Pöttinger has paid special attention to safety, straightforward operation and efficient working and transport positions.

Breakaway device – just in case
If the mower collides with any obstacles it pivots to the rear. The triggering force is adjustable.

**Mechanical system:**
Triggering pressure can be set by adjusting a cup spring. Two interconnected prongs disengage reliably when overloaded. The operator can disengage the interlock pin from the driver's seat so that the mower can be pivoted upwards into the transport position.

**Hydraulics:**
Breakaway device and pivoting mechanism are combined in one system. If the mower overloads or impacts any obstacles the mower pivots away and can be brought back into the working position hydraulically. A safety check valve secures the mower when pivoted for safe road transport.

**Lifting at headland turn:**
The tractor hitch does not need to be operated for lifting the mower at headlands. As a result no readjustment is required after lowering. Simply lift using a single-acting remote.
Centre suspension – optimum ground hugging

The NOVACAT centre pivot suspension supports the cutter bar over the entire cutting width. Side traction and drag are reduced considerably compared with conventional side mounting systems. The tractor power requirement is reduced as a result – an enormous advantage when mowing with a conditioner.

Large freedom of movement
This is a real advantage especially on uneven ground and steep slopes. The centre pivot suspension allows the mower to respond more quickly to changing conditions.
The sward needs to be protected. Ideal ground hugging and uniform pressure exerted by the mower are important demands from the field. The central suspension point in combination with the variable weight alleviation system ensures the sward is protected across the whole width of the cut.

**Effective weight alleviation for the "floating cut"**

Two powerful springs ensure uniform ground pressure over the whole width of the cutter bar.

The pressure the cutter bar exerts on the ground can be adjusted without tools by simply placing a pin in one of 6 holes to counterbalance swath formers or a conditioner.

**Settings:**

- **Dry, hard ground:**
  Increase the pressure so that the mower does not bounce at higher travelling speeds.
- **Damp, soft ground:**
  Lower the pressure for best possible ground hugging.

**Practical equipment**

- The side guard can be released in a single action, swung upwards and locked in place.
- Practical toolbox integrated into frame.
- Protruding external skids protect the mower discs against obstructions and protect the sward.
- Swath discs at both ends are standard on Pöttinger equipment (NOVACAT 225 H outside only).
Weight reduction was the focus of development on the new front-mounted disc mower NOVACAT 306 front classic. Compact construction and machined aluminium alloy components are the mower’s key features.
NOVACAT alpha-motion front-mounted mowers

Alpha-motion, the recently developed front technology, heralds a new age of disc and drum mowers. The mower can be hitched to any tractor of between 60 and 360 hp – regardless of model and size. The various different front linkages have no effect on the suspension and ground tracking of the front mower unit.
Counter springs

Weight alleviation is straightforward but effective. Two powerful springs ensure a uniform ground pressure over the whole width of the cutter bar. The pressure the cutter bar exerts on the ground can be adjusted quickly and easily by adjusting the length of the chain.
The “floating cut” became a Pöttinger trademark long ago.

Effective weight alleviation, freedom of movement and optimised ground hugging are typical for Pöttinger machines.

**Weight reduction**
The weight of the front-mounted mower has been reduced using aluminium side guards.

**Shortened headstock**
The real trademark of the classic is the shortened headstock to bringing the mower closer to the tractor. The gear unit is placed low down to reduce the angle of the PTO shaft.

**Ultimate ground hugging technology**
The centre stock is the key component for perfect ground hugging. The 3-point suspension system mounted on ball joints gives the mower multidimensional freedom of movement. The cutter bar is guided with precision over every bump. Adjustable stabiliser springs are integrated in the centre stock to keep the mower centred when raised during transport.

**Individually adjustable swath discs**
The swath formers at each end of the cutter bar can be adjusted individually.
The advantages of "alpha-motion":
1. Mower can float by +/- 9.84" / 250 mm, or 19.69" / 500 mm in total, above or below the tractor's front wheel level.
2. Angle of inclination of cutter-bar self-adjusts by +12° upwards, -9° downwards, so significantly less risk of soil damage and reduces wear.
3. Higher speeds can be reached – without having to remove the mowing unit.
5. Clearance of 13.78" / 350 mm on headland turns and transport setting.
6. Outstanding design provides perfect view of the mowing area.
7. Mower unit moves almost vertically, small slide paths on the drive shaft and significantly lower dynamic loads.
front-mounted mowers

It takes just a few minutes to hitch up.
Particular attention was paid to providing a good view of the mowing area.

”alpha-motion“ – Hitch-on rack for front mower

Behind the new ”alpha-motion“ front technology are the well-thought-out kinematics of the support frame. In contrast to “state-of-the-art” drawn rack systems, the support frame itself reacts to every unevenness of the terrain, as well as the connection rods. The mower unit is also raised when there is an incline and lowered for downhill slopes.

Result: unique adaptation to the terrain, which protects both turf and machine.

Two large springs are built in to the hitch-on rack. The springs ensure an even release of the mowing unit over a distance of

20” / 500 mm. A simple, yet highly effective release for all types of use.

The geometry of the hitch-on rack is designed so that the center of gravity in all working positions is as close as possible to the tractor.

Perfect swath formation

The outer mower disc pairs rotate inwards. Swath formers place the cut forage in light and airy swath.

The swath width can be adjusted centrally using a lever. Additional swath discs are available for combined mowing/loading operations.

Unique transverse oscillation

Transverse oscillation of +/-16° is made possible by ball-and-socket joints in the connection rods.
The roller conditioner (CRW / RC) is especially suitable for lucerns and clovers due to its precision conditioning capabilities. The new RC profile is spiral-shaped. The rollers intermesh to uniformly squash the stalks and produce a uniform blanket of forage. Both rollers are driven.

V-shaped steel tines of hardened steel guarantee a continuous flow of crop and an extended service life. The tines are mounted on rubber elements for elasticity. The tines are arranged in a spiral on the conditioner rotor.

Plastic fingers lower the weight on NOVACAT 225/265 ED mowers so that they can be operated using lightweight tractors.
Every farmer knows you need the best possible quality forage for dairy cattle to produce a high yield cost-effectively. More energy in the forage increases milk output at the same time as reducing the costs of concentrates.

1. "extra dry" – wide spread system
The rotor transfers the crop past the wide spread plates. The plates distribute the flow of crop over the over the whole mowed width. Each plate can be adjusted individually. The forage is then deposited in a wide and airy blanket.

2. "extra dry" – swath formation
The two swath boards and the outer plates are turned inwards to form a swath. The swath width is determined by the position of the plates.

3. Rotor drive
Power is transmitted from the cutter bar shaft to the rotor by drive belts. No additional angular gear unit required as a result.
The spring-loaded belt tensioner has a wide roll to adsorb power peaks effectively for jolt-free power transmission. Tension can easily be released to remove drive belts. Well protected against contact with forage.

The conditioner speed can be adjusted to different types of forage.
940 rpm for high conditioning intensity and 710 rpm for more careful processing.

Single operator handling system available
The conditioner can easily be removed by one person if it is not required for a particular mowing operation.
1. Release quick-release pins
2. Remove drive belts
3. Attach wheels, pull conditioner out – finished.
Conditioners carefully rub the layer of wax covering the crop. The forage is then deposited across the full width in an airy blanket.

Advantages of conditioning:
- Shorter drying period in the field, less risk from the weather.
- Increases energy content by up to 10% – saves concentrates.
- Better silage quality due to rapid reduction in PH-value.
- No tedding (or less tedding) required, which saves time and simplifies the process.
- Careful conditioning process reduces loss due to disintegration of sensitive leaves – providing more protein for the silage.
- Fewer passes protects the stubble and crop. Savings of much money a hectare per year are possible as a consequence.

Conditioning intensity
Careful conditioning (for leafy legumes) through to intensive processing can be selected in steps using an adjusting lever 1. Bars welded to the conditioning plate 2 enable the degree of conditioning to be adjusted.
# Technical data

## NOVADISC

<table>
<thead>
<tr>
<th>NOVADISC</th>
<th>Working width ft / m</th>
<th>Discs</th>
<th>Coverage acres/h / ha/h</th>
<th>Swath width ft / m</th>
<th>Min. tractor power kW/hp</th>
<th>Weight lbs / kg</th>
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## NOVACAT rear-mounted

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All data not binding, features may vary from country to country.
## Equipements

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### Outer swath disc / Inner swath disc Additional swath disc Two paddle drums Wear skids High-cut skids Lighting

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### 710 rpm for conditioner Quick-release for conditioner Trolley for conditioner

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All data not binding, features may vary from country to country.
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